



## Jason B. Ross, MD, PhD

Assistant Professor of Radiation Oncology (Radiation Therapy)  
Radiation Oncology - Radiation Therapy

### CLINICAL OFFICE (PRIMARY)

- **Stanford Cancer Center**

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### Bio

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#### BIO

Dr. Ross is a physician-scientist in the Department of Radiation Oncology at Stanford University. He received his BS in Biological Sciences from Stanford University, where he conducted research in normal and cancer stem cell biology. He obtained his MD from Weill Cornell Medical College and his PhD from The Rockefeller University, where he studied breast cancer metastasis, as a member of the Tri-Institutional MD-PhD Program in New York City. He conducted postdoctoral research as a Kaplan Research Fellow with co-advisors Dr. Irving Weissman and Dr. Maximilian Diehn at Stanford University, where he studied hematopoietic stem cells and the influence of radiotherapy on the tumor-immune micro-environment. His laboratory studies normal, dysfunctional, and malignant stem cells in the context aging, cancer, and chronic disease.

#### CLINICAL FOCUS

- Radiation Oncology

#### ACADEMIC APPOINTMENTS

- Assistant Professor, Radiation Oncology - Radiation Therapy
- Member, Bio-X
- Member, Institute for Stem Cell Biology and Regenerative Medicine
- Member, Stanford Cancer Institute

#### PROFESSIONAL EDUCATION

- Fellowship: Stanford University Dept of Radiation Oncology (2024) CA
- Board Certification: Radiation Oncology, American Board of Radiology (2022)
- Residency: Stanford University Dept of Radiation Oncology (2021) CA
- Internship: Abington Memorial Hospital Internal Medicine Program (2017) PA
- Medical Education: Weill Cornell Medical College (2016) NY
- Board Certification, American Board of Radiology , Radiation Oncology (2022)

- Residency, Stanford University Medical Center , Radiation Oncology (2021)
- MD, Weill Cornell Medical College , Medicine (2016)
- PhD, The Rockefeller University , Cancer Biology (2015)
- BS, Stanford University , Biological Sciences (2006)

## LINKS

- Lab Website: <https://med.stanford.edu/ross-lab>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My laboratory studies studying normal, dysfunctional, and malignant stem cells in the context of aging, cancer, and cancer therapies.

## Publications

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### PUBLICATIONS

- **Depleting myeloid-biased haematopoietic stem cells rejuvenates aged immunity.** *Nature*  
Ross, J. B., Myers, L. M., Noh, J. J., Collins, M. M., Carmody, A. B., Messer, R. J., Dhuey, E., Hasenkrug, K. J., Weissman, I. L.  
2024
- **Identification of molecular determinants of primary and metastatic tumour re-initiation in breast cancer** *NATURE CELL BIOLOGY*  
Ross, J. B., Huh, D., Noble, L. B., Tavazoie, S. F.  
2015; 17 (5): 651-U258
- **Automated contouring, treatment planning, and quality assurance for total marrow lymphoid irradiation** *FRONTIERS IN ONCOLOGY*  
Simiele, E., Hui, C., Romero, I., Yang, Z., Skinner, L., Xing, L., Ross, J. B., Hoppe, R. T., Binkley, M. S., Hiniker, S. M., Kovalchuk, N.  
2025; 15
- **Urgent and emergent radiotherapy for hematologic malignancies of the central nervous system: a review of the literature and practical approach.** *Frontiers in oncology*  
Tringale, K. R., Imber, B. S., Cederquist, G. Y., Yahalom, J., Moore, Z. R., Hoppe, R. T., Binkley, M. S., Ross, J. B., Wijetunga, N. A., Sanghvi, P., Casey, D. L., Hiniker, S. M.  
2025; 15: 1511261
- **Radiotherapy in combination with CD47 blockade elicits a macrophage-mediated abscopal effect.** *Nature cancer*  
Nishiga, Y., Drainas, A. P., Baron, M., Bhattacharya, D., Barkal, A. A., Ahrari, Y., Mancusi, R., Ross, J. B., Takahashi, N., Thomas, A., Diehn, M., Weissman, I. L., Graves, et al  
2022
- **PTPRN2 and PLCb1 promote metastatic breast cancer cell migration through PI(4,5)P-2-dependent actin remodeling** *EMBO JOURNAL*  
Sengelaub, C. A., Navrazhina, K., Ross, J. B., Halberg, N., Tavazoie, S. F.  
2016; 35 (1): 62-76
- **A genetic screen to isolate type III effectors translocated into pepper cells during Xanthomonas infection** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Roden, J. A., Belt, B., Ross, J. B., Tachibana, T., Vargas, J., Mudgett, M. B.  
2004; 101 (47): 16624-16629